

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"6211485".pn.	USPAT	OR	OFF	2006/10/03 06:26
L2	28	("4500389" "4504727" "4544442" "4606747" "4642160" "4644130" "4764485" "4789770" "5010232" "5087396" "5108785" "5173442" "5367143" "5378869" "5844200" "6107003").PN. OR ("6211485").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/03 06:26
L3	15	("5021120" "5403672" "5578696" "5759416").PN. OR ("6107003").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/03 06:27
L4	111	("4030190" "4211603" "4566186").PN. OR ("4642160").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/03 06:29
L5	86	("3953556" "4348253" "4445978" "4473737" "4482516" "4547836" "4566186" "4595428" "4617730" "4642160" "4647476" "4705762" "4720308" "4736521" "4788766" "4901136" "4913656" "4943032" "4959119" "4985296" "5009607" "5019997" "5048166" "5064583" "5071359" "5072075" "5108785" "5144742" "5155655" "5161086" "5171964" "5224265" "5245751" "5251097" "5258094" "5261153" "5292574" "5293025" "5293626" "5322593" "5323520" "5331203" "5337466" "5347258" "5347712" "5355397" "5377404" "5378313" "5378318" "5391516" "5401687" "5428803" "5433000" "5442475" "5446311" "5459634" "5466892" "5478972" "5483421" "5509553" "5524339" "5534666" "5541367" "5541731" "5608192" "5633479" "5736679").PN. OR ("6021564").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/03 06:30
L6	913	29/852.ccls.	USPAT	OR	OFF	2006/10/03 07:36

EAST Search History

L7	20	("20030098631" "6060818" "6377137" "6384697" "6399425" "6424237" "6441702" "6456173" "6469597" "6472954" "6480074" "6483229" "6486751" "6542054" "6566979" "6617249" "6657517" "6662419" "6711792" "6812068").PN. OR ("7114252").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/03 07:56
L8	19	(negative adj coefficient adj thermal adj expansion) same dielectric	USPAT	OR	ON	2006/10/03 07:58
L9	5	(negative adj coefficient adj thermal adj expansion) same polyethylene	USPAT	OR	ON	2006/10/03 07:58
L12	1197	"29"/\$.ccls. and (((silicon adj oxide) or (silicon adj nitride) or polyimide or (silicon adj dioxide)) same dielectric)	USPAT	OR	ON	2006/10/03 08:30
L13	331	zirconium with tungstate	USPAT	OR	ON	2006/10/03 08:46
L14	25	(zirconium with tungstate) same dielectric	USPAT	OR	ON	2006/10/03 08:46
S1	1	"5613861".pn. and (forc\$ or press\$)	USPAT	OR	ON	2004/08/09 10:08
S2	1	"5613861".pn. and (permanent\$ or temporar\$)	USPAT	OR	ON	2004/08/09 10:41
S3	1	"5613861".pn. and solder\$	USPAT	OR	ON	2004/08/09 10:41
S4	180	chang-rick-kiltae.xa. or chang-rick-k.xa.	USPAT	OR	OFF	2006/07/25 10:19
S5	5	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls.) and (negative with thermal) and (positive with thermal)	USPAT	OR	OFF	2004/08/04 12:31
S6	0	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls.) and ((silicon adj oxide) or (silicon adj dioxide) or (silicon adj nitride) or polyimide) and (zirconium adj tungstate)	USPAT	OR	OFF	2002/09/17 06:01
S7	112	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls.) and ((silicon adj oxide) or (silicon adj dioxide) or (silicon adj nitride) or polyimide) and (zirconium	USPAT	OR	OFF	2006/10/03 07:36

EAST Search History

S8	52	zirconium adj tungstate	USPAT	OR	OFF	2006/10/02 12:57
S9	1	("6164993").PN.	USPAT; USOCR	OR	OFF	2002/09/16 11:24
S10	14	((silicon adj oxide) or (silicon adj dioxide) or (silicon adj nitride) or polyimide) and (zirconium adj tungstate)	USPAT	OR	OFF	2002/09/17 05:49
S11	5	("4950173" "5497545" "5607313" "5641291" "5919720").PN.	USPAT	OR	OFF	2002/09/16 11:25
S12	8	polyimide and (zirconium adj tungstate)	USPAT	OR	OFF	2002/09/17 05:51
S13	0	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls. or 439/161,932,83.ccls. or 174/262, 260,265.ccls. or 361/764,772,773.ccls.) and (negative adj thermal coefficient) and (positive adj thermal adj coefficient)	USPAT	OR	OFF	2002/09/17 06:02
S14	0	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls. or 439/161,932,83.ccls. or 174/262, 260,265.ccls. or 361/764,772,773.ccls.) and (negative adj thermal adj coefficient) and (positive adj thermal adj coefficient)	USPAT	OR	OFF	2002/09/17 06:11
S15	3	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls. or 439/161,932,83.ccls. or 174/262, 260,265.ccls. or 361/764,772,773.ccls.) and (negative adj coefficient adj thermal adj expansion) and (positive adj coefficient adj thermal adj expansion)	USPAT	OR	OFF	2002/09/17 06:13
S16	60	(negative adj coefficient adj thermal adj expansion) and (positive adj coefficient adj thermal adj expansion)	USPAT	OR	OFF	2002/09/17 07:14

EAST Search History

S17	17	("3526565" "3686048" "4282011" "4318954" "4368234" "4414264" "4513055" "4522667" "4536438" "4569692" "4574107" "4576857" "4582748" "4590539" "4591659" "4609586" "4623577").PN.	USPAT	OR	OFF	2002/09/17 06:16
S18	1	("4513055").PN.	USPAT; USOCR	OR	OFF	2002/09/17 07:11
S19	3	negative adj positive adj coefficient adj thermal adj expansion	USPAT	OR	OFF	2004/08/04 12:32
S20	10	positive adj negative adj coefficient adj thermal adj expansion	USPAT	OR	OFF	2006/10/03 07:56
S21	160	29/837,741.ccls. and heat\$	USPAT	OR	OFF	2002/09/17 08:39
S22	19	"4814945".URPN.	USPAT	OR	OFF	2004/08/04 09:28
S23	6	("5194713" "5220135" "5314742" "5319159" "5378869" "6090330").PN.	USPAT	OR	OFF	2004/08/04 09:33
S24	25	"4513055".URPN.	USPAT	OR	OFF	2004/08/04 09:34
S25	7	"4875282".URPN.	USPAT	OR	OFF	2004/08/04 09:36
S26	0	"5285015".URPN.	USPAT	OR	OFF	2004/08/04 09:37
S27	10	("3350498" "3704164" "4067945" "4103102" "4604160" "4651417" "4673904" "4769270" "4875282" "4912020").PN.	USPAT	OR	OFF	2004/08/04 09:37
S28	112	positive same negative same cte	USPAT	OR	ON	2004/08/04 09:40
S29	13	("4496793" "4654248" "4814945" "4921054" "4943468" "5376326" "5574630" "5602491" "5830374" "5900675" "5919329" "6011691" "6136733").PN.	USPAT	OR	OFF	2004/08/04 09:41
S30	7	("1609222" "2217423" "3113435" "3666578" "3958317" "4170819" "4201616").PN.	USPAT	OR	OFF	2004/08/04 09:44
S31	41	"4496793".URPN.	USPAT	OR	OFF	2004/08/04 09:44
S32	2	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls.) and (negative same positive same cte)	USPAT	OR	ON	2004/08/04 12:42

EAST Search History

S33	5	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls.) and (negative same positive same (cte or (coefficient adj thermal adj expansion)))	USPAT	OR	ON	2004/08/04 12:39
S34	24	"4521262".URPN.	USPAT	OR	OFF	2004/08/04 12:33
S35	22	"4689110".URPN.	USPAT	OR	OFF	2004/08/04 12:36
S36	0	29/852.ccls. and ((silicon adj oxide) or (silicon adj nitride) or polyimide) and (zirconium adj tungstate)	USPAT	OR	ON	2004/08/04 12:42
S37	0	(29/852,830,846,847.ccls. or 427/97,98,96,99 or 438/688,644, 637,636,675,648,650,660.ccls. or 252/250.ccls. or 204/192.17.ccls.) and ((silicon adj oxide) or (silicon adj nitride) or polyimide) and (zirconium adj tungstate)	USPAT	OR	ON	2004/08/04 12:43
S38	17	((silicon adj oxide) or (silicon adj nitride) or polyimide) and (zirconium adj tungstate)	USPAT	OR	ON	2006/10/03 08:28
S39	5	("4950173" "5497545" "5607313" "5641291" "5919720").PN.	USPAT	OR	OFF	2004/08/04 12:44
S40	11	("2990533" "3103547" "3201851" "3281923" "3445929" "3446908" "3926360" "4727633" "4730086" "4881906" "5024372").PN.	USPAT	OR	OFF	2004/08/04 12:45
S41	10	("4950173" "5123849" "5387121" "5433778" "5466169" "5497545" "5514360" "5607313" "5641291" "5919720").PN.	USPAT	OR	OFF	2004/08/04 12:47
S42	5	("4047132" "4551746" "4560962" "4591659" "4689110").PN.	USPAT	OR	OFF	2004/08/04 13:11
S43	33	"4812792".URPN.	USPAT	OR	OFF	2004/08/04 13:11
S44	9	(silicon adj dioxide) same ((negative or positive) with ((coefficient adj thermal adj expansion) or cte))	USPAT	OR	ON	2005/08/22 09:50
S45	734	((negative or positive) same ((coefficient adj thermal adj expansion) or cte))	USPAT	OR	ON	2005/08/16 14:12

EAST Search History

S54	21	((silicon adj dioxide) or (silicon adj nitride) or polyimide) and (zirconium adj tungstate)	USPAT	OR	ON	2005/08/16 14:03
S55	10	("4950173" "5497545" "5607313" "5641291" "5919720").PN. OR ("6264486").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/16 14:07
S56	10	("4950173" "5123849" "5387121" "5433778" "5466169" "5497545" "5514360" "5607313" "5641291" "5919720").PN. OR ("6164993").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/16 14:11
S57	47	((negative or positive) same ((coefficient adj thermal adj expansion) or cte)) same polyimide	USPAT	OR	ON	2005/08/16 14:12
S58	38	("2990533" "3103547" "3201851" "3281923" "3445929" "3446908" "3926360" "4727633" "4730086" "4881906" "5024372").PN. OR ("5497545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/16 14:22
S59	43	("3952231" "4054939" "4294877" "4318954" "4327126" "4456712" "4464704" "4472762" "4526835").PN. OR ("4591659").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/18 07:08
S60	30	("3953566" "4482516" "4591659" "4654248" "4705762" "4866502" "4890194" "4943844" "4985296" "5103292" "5290624" "5339217" "5455385" "5483421" "5506756" "5532513" "5545473" "5572405" "5574630" "5768108" "5778623" "5900312" "6014317").PN. OR ("6248959").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/18 07:18
S61	1	((("3953566" "4482516" "4591659" "4654248" "4705762" "4866502" "4890194" "4943844" "4985296" "5103292" "5290624" "5339217" "5455385" "5483421" "5506756" "5532513" "5545473" "5572405" "5574630" "5768108" "5778623" "5900312" "6014317").PN. OR ("6248959").URPN.) and ((negative or positive) same ((coefficient adj thermal adj expansion) or cte))	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/18 07:18

EAST Search History

S62	10	("4950173" "5497545" "5607313" "5641291" "5919720").PN. OR ("6264486").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/18 07:43
S63	16	(US "4318954" A US "4513055" A US "4522667" A US "4569692" A US "4590539" A US "4591659" A US "4609586" A US "4814945" A US "4875282" A US "5369551" A US "5497545" A US "5919329" A US "6127025" A US "6210537" B1 US "6365844" B2 US "6436803" B1).pn.	USPAT	OR	OFF	2005/08/18 07:47
S64	4	(US "4318954" A US "4513055" A US "4522667" A US "4569692" A US "4590539" A US "4591659" A US "4609586" A US "4814945" A US "4875282" A US "5369551" A US "5497545" A US "5919329" A US "6127025" A US "6210537" B1 US "6365844" B2 US "6436803" B1).pn. and (positive and negative) same ((coefficient adj thermal adj expansion) or cte)	USPAT	OR	OFF	2005/08/18 07:54
S65	39	("3526565" "3686048" "4282011" "4318954" "4368234" "4414264" "4513055" "4522667" "4536438" "4569692" "4574107" "4576857" "4582748" "4590539" "4591659" "4609586" "4623577").PN. OR ("4814945").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/18 07:49
S67	1952	(lower and higher) same ((coefficient adj thermal adj expansion) or cte)	USPAT	OR	ON	2005/08/18 07:55
S68	1	("6,274,932").PN.	USPAT	OR	OFF	2005/08/18 07:57
S69	1	(positive and negative) same ((coefficient adj thermal adj expansion) or cte) and kevlar and fiberglass	USPAT	OR	ON	2005/08/18 08:21
S70	1031	copper same ((positive adj coefficient) or cte)	USPAT	OR	ON	2005/08/18 09:08
S71	18	29/852.ccls. and ((chang-r\$.xa.))	USPAT	OR	ON	2005/08/18 09:04
S72	18	("4642160" "4673773" "4710854" "4806188" "4830691" "4882454" "4902610" "4904968" "5010641").PN. OR ("6378201").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/18 08:30
S73	2	(zirconium adj tungstate) same single same crystal	USPAT	OR	ON	2005/08/18 08:50

EAST Search History

S74	1	(zirconium adj tungstate) same (single-crystal)	USPAT	OR	ON	2005/08/18 08:50
S75	1	(zirconium same tungstate) same (single-crystal)	USPAT	OR	ON	2005/08/18 08:51
S76	1	zirconium same tungstate same (single-crystal)	USPAT	OR	ON	2005/08/18 08:51
S77	5	zirconium same tungstate same single same crystal	USPAT	OR	ON	2005/08/18 09:01
S78	4153	ceramic same ((epoxy-glass) or (epoxy with glass))	USPAT	OR	ON	2005/08/18 09:01
S79	4	29/852.ccls. and ((chang-r\$.xa.)) and ceramic	USPAT	OR	ON	2005/08/18 09:04
S80	0	copper same ((positive adj coefficient adj2 theremal))	USPAT	OR	ON	2005/08/18 09:08
S81	11	copper same ((positive adj coefficient adj2 thermal))	USPAT	OR	ON	2005/08/18 09:13
S82	29	epoxy same ((negative adj coefficient adj2 thermal))	USPAT	OR	ON	2005/08/18 09:12
S83	14	epoxy same ((positive adj coefficient adj2 thermal))	USPAT	OR	ON	2005/08/18 09:12
S84	16	copper same ((negative adj coefficient adj2 thermal))	USPAT	OR	ON	2006/07/25 07:58
S85	4	(silicon adj oxide) same ((negative or positive) with ((coefficient adj thermal adj expansion) or cte))	USPAT	OR	ON	2005/08/22 09:30
S86	5	(silicon adj nitride) same ((negative or positive) with ((coefficient adj thermal adj expansion) or cte))	USPAT	OR	ON	2005/08/22 09:30
S87	16	(zirconium adj tungstate) same (negative with ((coefficient adj thermal adj expansion) or cte))	USPAT	OR	ON	2006/10/02 12:54
S88	1	("4642160").PN.	USPAT	OR	OFF	2006/02/22 07:00
S89	1121	copper same ((negative adj coefficient adj2 thermal) or cte)	USPAT	OR	ON	2006/10/02 14:02
S90	1	"6,164,993".pn.	USPAT	OR	ON	2006/07/25 08:13
S91	10	("4950173" "5123849" "5387121" "5433778" "5466169" "5497545" "5514360" "5607313" "5641291" "5919720").PN. OR ("6164993").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/25 08:15
S92	4	gold same ((negative adj coefficient adj2 thermal) or (negative with cte))	USPAT	OR	ON	2006/07/25 08:19

EAST Search History

S93	145	((negative adj coefficient adj2 thermal) same (positive adj coefficient adj2 thermal)) or ((negative with cte) same (positive with cte)))	USPAT	OR	ON	2006/07/25 09:46
S94	10	("4950173" "5497545" "5607313" "5641291" "5919720").PN. OR ("6264486").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/25 08:52
S95	1	("5,426,405").PN.	USPAT	OR	OFF	2006/07/25 09:06
S96	896	29/852.ccls.	USPAT	OR	OFF	2006/07/25 10:45
S97	11	("4258468" "4717639" "5063280" "5073687" "5121298" "5648125" "6117706").PN. OR ("6280641").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/25 09:45
S98	1	("6132676").PN.	USPAT	OR	OFF	2006/07/25 09:45
S99	3	((positive adj coefficient adj2 thermal) or (positive with cte)) same ((silicon adj oxide) or (silicon adj dioxide) or (silicon adj nitride))	USPAT	OR	ON	2006/07/25 09:51
S100	1267	((coefficient adj2 thermal) or cte) same ((silicon adj oxide) or (silicon adj dioxide) or (silicon adj nitride))	USPAT	OR	ON	2006/07/25 09:51
S101	1	("4642160").PN.	USPAT	OR	OFF	2006/07/25 10:18
S102	396	(chang-r\$.xa. or chang-r\$.xp.) and "29"/\$.ccls.	USPAT	OR	OFF	2006/07/25 10:20
S103	48	("5037780" "5070604" "5348214" "5410807" "5478007" "5518964" "5615824").PN. OR ("5874780").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/25 10:22
S104	34	29/852.ccls. and concave	USPAT	OR	ON	2006/07/25 10:45
S105	1	("5864478").PN.	USPAT	OR	OFF	2006/07/27 07:27
S106	1	("6,490,160").PN.	USPAT	OR	OFF	2006/07/27 07:27
S107	30	("4992925" "5117330" "5289364" "5359495" "5497289" "5548484" "5626480" "5627413").PN. OR ("5864478").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/27 07:27
S108	30	("4992925" "5117330" "5289364" "5359495" "5497289" "5548484" "5626480" "5627413").PN. OR ("5864478").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/27 08:18

EAST Search History

S10 9	2	((("5641113") or ("6260264"))).PN.	USPAT	OR	OFF	2006/07/27 08:59
S11 0	1	("5,426,405").PN.	USPAT	OR	OFF	2006/07/27 09:22
S11 1	1	("6,588,094").PN.	USPAT	OR	OFF	2006/07/27 09:22
S11 2	14	(zirconium adj tungstate) and polyimide	USPAT	OR	ON	2006/10/02 12:55
S11 3	22	(zirconium adj tungstate) and (silicon with (oxide or dioxide or nitride))	USPAT	OR	ON	2006/10/02 12:56
S11 4	249	zirconium with tungstate	USPAT	OR	OFF	2006/10/03 08:42
S11 5	10	("4950173" "5123849" "5387121" "5433778" "5466169" "5497545" "5514360" "5607313" "5641291" "5919720").PN. OR ("6164993").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/02 13:03
S11 6	111	("4030190" "4211603" "4566186").PN. OR ("4642160").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/02 13:50
S11 7	16	copper same ((negative adj coefficient adj2 thermal))	USPAT	OR	ON	2006/10/02 13:59
S11 8	11	copper same ((positive adj coefficient adj2 thermal))	USPAT	OR	ON	2006/10/02 14:03